

[DEFINITIONS]

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;
; [ ... ]:
; THE DRIVER NAME IS ASSIGNED BETWEEN BRACES. EACH DRIVER MUST BE
; ASSIGNED A UNIQUE NAME. THE MAXIMUM LENGTH FOR THE DRIVER NAME
; IS 24 CHARACTERS. THE TOTAL NUMBER OF DRIVERS ALLOWED IS 255.
;
; DRIVER#:
; EACH DRIVER MUST HAVE A UNIQUE ID NUMBER ASSIGNED [FROM 1 TO 255].
; A DRIVER IS USED TO AUTOMATICALLY TRANSMIT A PREDEFINED SEQUENCE
; OF CHARACTERS ("TXSTART"+"TXCOMMAND"+"TXEND") TO AN EXTERNAL PORT,
; THEN TO CAPTURE THE RESPONSE DATA RECEIVED AT THE PORT, AND LAST
; TO EXTRACT SPECIFIC VALUES FROM THE RESPONSE AND DISPLAY THEM ON
; SCREEN ("RXSTRIP"). IF A UNIQUE DRIVER# IS ASSIGNED, THEN THE
; DRIVER IS LOADED TO MEMORY AND THE DRIVER'S NAME IS ADDED TO THE
; LIST OF DRIVER NAMES IN THE PORT CONFIGURATION DIALOG, OTHERWISE
; THE DRIVER IS IGNORED.
;
; OTHER DRIVERS CAN ALSO BE REFERENCED OR INCLUDED BY USING THE "&"
; CHARACTER FOLLOWED BY THE DRIVER# TO INCLUDE. FOR EXAMPLE:
; "DRIVER#=2 &7 &1" WILL CAUSE DRIVERS 2, 7, AND 1 TO EXECUTE [MAX
; IS 64 INCLUDED DRIVERS]. INCLUDED DRIVERS CAN ALSO INCLUDE OTHER
; DRIVERS. FOR EXAMPLE: "DRIVER#=4 &2 &5" WILL CAUSE DRIVERS 4, 2,
; 7, 1, AND 5 TO EXECUTE.
;
; DRIVERS ARE EXECUTED IN THE ORDER THAT THEY ARE INCLUDED STARTING
; WITH THE DRIVERS ATTACHED TO DEVICE# 1 & ENDING WITH DRIVER# LAST.
; IN GENERAL, THERE ARE SIX DIFFERENT WAYS TO EXECUTE A DRIVER:
;
; 1) PERIODICALLY: "TXPERIOD=4" WILL EXECUTE ONCE EVERY 4 SECONDS
; 2) DAILY: "TXPERIOD=T1830" WILL EXECUTE ONCE @ 6:30 P.M.
; 3) WEEKLY: "ONWOW=7" WILL EXECUTE ON SUNDAY @ "TXPERIOD"
; 4) MONTHLY: "ONDAY=14" WILL EXECUTE ON THE 14TH @ "TXPERIOD"
; 5) CONDITIONALLY: USING "SETMESSAGE", "ATMESSAGE" AND "M" COMMANDS
; 6) MANUALLY: BY SELECTING FROM THE CONTROL OPTIONS MENU
;
; PERIODICALLY EXECUTED DRIVERS ARE CALLED INTERROGATION DRIVERS
; AND ARE EXECUTED ONCE EVERY TIME THE "TXPERIOD" INTERVAL ELAPSES.
; MANUALLY EXECUTED DRIVERS ("TXPERIOD=0" AND "TXDELAY=0") ARE
; CALLED CONTROL MENUS AND ARE EXECUTED FROM THE "CONTROL MENU" LIST
; IN THE DXF DISPLAY. THE "CONTROL MENU" IS AVAILABLE DURING CONTROL
; MODE ONLY AND PERIODIC DRIVERS EXECUTE DURING BROWSE MODE ONLY.
;
; TYPE:
; DEFINES THE TYPE OF DATA SPECIFIED IN THE "TX" & "LOG" COMMANDS.
; THE TYPES ARE "ASCII" OR "HEXADECIMAL". THESE TYPES MAY CONTAIN
; ESCAPE SEQUENCES SUCH AS ^[10;13;p10] FOR "RETURN"+"LINE FEED"
; FOLLOWED BY A 10 SECOND DELAY (MAX DELAY IS 255 SECONDS).
;
; REPORTIF:
; SEQUENCE OF CHARS TO SEARCH FOR (ASCII OR BINARY) IN THE CAPTURED
; DATA. IF THE SEQUENCE IS NOT FOUND THEN REPORT WILL BE BYPASSED
; AND THE DATA WILL BE DELETED. MAKE SURE ARCHIVE IS ACTIVE TO
; RETAIN A COPY OF THE CAPTURED DATA. IF THE SEQUENCE IS FOUND THEN
; THE CAPTURED DATA WILL BE REPORTED TO THE HOST COMPUTER. THE MAX
; SEQUENCE LENGTH IS 255 CHARS. ESCAPE SEQUENCES ARE ALLOWED FOR
; THIS COMMAND.
;
; SETPORT:
; A COMMAND USED TO REINITIALIZE THE PORT CONFIGURATION DYNAMICALLY.
; USE THIS COMMAND TO REINITIALIZE A PORT'S BAUD RATE, BYTE SIZE,
; PARITY AND STOPBITS BEFORE THE DRIVER IS EXECUTED. THIS FEATURE
; IS USEFUL WHEN SWITCHING BETWEEN DIFFERENT DEVICES CONNECTED VIA
; THE SAME PORT. FOR EXAMPLE IF 2 SEL 2030 WITH DIFFERENT PORT
; CONFIGURATIONS ARE BEING POLLED FROM THE SAME MODEM OR DIRECT
; CONNECTION THEN SETPORT WILL INSURE THE PROPER PORT CONFIGURATION
; FOR BOTH SEL 2030S.
;
; SETSYSVAR:
; AN INTERNAL COMMAND USE TO CHANGE THE VALUE OF ANY ONE OF THE 7 ESCSEQ
; INTERNAL VARIABLES. THE ESCSEQ VARIABLES ARE DEFINED IN THE DEVICE
; RECORD. THE COMMAND SEQUENCE IS SETSYSVAR=EXISTINGVARIABLE NEWVARIABLE.
; THIS FEATURE WAS CREATED FOR THE "CHANGE PASSWORD" FEATURE BUT CAN BE
; USED FOR ANY ONE OF THE ESCSEQ VARIABLES DEFINED. THE EXAMPLE BELOW
; CHANGES THE PASSWORD DEFINED IN THE 3RD ESCSEQ VARIABLE DEFINED IN THE
; DEVICE RECORD WITH A RANDOMLY GENERATE 6 CHARACTER PASSWORD. THE
; "CRCPASS" ESCAPE CODE COMMAND CREATES A 6 CHARACTER RANDOMLY GENERATED
; STRING. THE DEVICE RECORD IN THE DATABASE (CFG_SHOT.DTB) AND ON SCREEN
; IS UPDATED WITH THE VARIABLE STRING. THE MAXIMUM LENGTH IS 80 CHARACTERS
; AND ESCAPE CODE SEQUENCE COMMANDS ARE ALLOWED.
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;
;   EXAMPLE:  SETSYSVAR ^[^CMND2] ^[CRCPASS]
;
; LOGPERIOD:
;   THE SAVE CYCLE IN SECONDS (AN INTEGER NUMBER UP TO 2 MILLION).
;   FOR EXAMPLE, IF "LOGPERIOD=90" WAS SPECIFIED THEN THE VARIABLES
;   AND TEXT THAT ARE SPECIFIED IN "LOGCOMMAND" WILL BE SAVED TO DISK
;   ONCE EVERY 90 SECONDS.  THE SAVED DATA IS STORED IN TEXT FORMAT
;   UNDER THE FILENAME SPECIFIED IN "LOGFILE=" IN THE SAVE DIRECTORY.
;   IF "LOGPERIOD=0" WAS SPECIFIED THEN THESE ACTIONS WILL NOT OCCUR
;   UNLESS "LOGDELAY>0" WAS SPECIFIED IN WHICH CASE THE DRIVER WILL
;   EXECUTE ONE TIME ONLY.  IF "LOGPERIOD=T0800" WAS SPECIFIED THEN
;   THE DRIVER WILL EXECUTE AT 08:00 MILITARY TIME.
;
; LOGDELAY:
;   THE DURATION IN SECONDS TO WAIT BEFORE THE LOG CYCLE BEGINS.
;   FOR EXAMPLE, IF "LOGDELAY=3" WAS SPECIFIED THEN ONLY THE FIRST
;   OCCURRENCE OF "LOGPERIOD" IS DELAYED BY 3 SECS.  IN THE PREVIOUS
;   EXAMPLE THE FIRST PERIOD WILL OCCUR AFTER 93 SECONDS, ALL OTHERS
;   WILL OCCUR 90 SECONDS APART.  IF "LOGPERIOD=0" WAS SPECIFIED THEN
;   SPECIFYING "LOGDELAY" WILL CAUSE THE DRIVER TO EXECUTE ONLY ONE
;   TIME (USEFULL FOR WRITTING HEADERS TO THE LOG FILE).
;
; LOGFILE:
;   THE PATH AND NAME OF THE TEXT FILE THAT WILL CONTAIN THE OUTPUTS
;   OF THE "LOGCOMMAND=".  IF THE PATH IS NOT SPECIFIED THEN THE DEFAULT
;   SAVE PATH IS USED.  IF "LOGFILE=[PATH]\BASE50" IS SPECIFIED OR IF
;   THE COMMAND "LOGFILE" IS NOT INCLUDED, THE SYSTEM WILL AUTOMATICALLY
;   ASSIGN A LONG FILE NAME (ACCESSED VIA "*.CSV" SWITCH).  THE MAXIMUM
;   STRING LENGTH IS 255 CHARACTERS.  ESCAPE CODE ARE ALLOWED.
;
; LOGRENAME:
;   RENAMES THE SPECIFIED FILE TO A LONG FILE NAME (ACCESSED VIA
;   "*.CSV" SWITCH).  THE SPECIFIED FILENAME MUST EXIST IN THE
;   SPECIFIED PATH.  IF THE PATH IS NOT SPECIFIED THEN THE DEFAULT
;   SAVE PATH IS USED.  THIS COMMAND IS REQUIRED INORDER TO TRANSFER
;   FILES THAT ARE BEING PERIODICALLY APPENDED.  LOGRENAME OCCURS
;   UPON TXPERIOD AND NOT UPON LOGPERIOD.  THE MAXIMUM STRING LENGTH
;   IS 255 CHARACTERS.  ESCAPE CODE ARE ALLOWED.
;
; LOGCOMMAND:
;   SEQUENCE OF CHARS TO SAVE (ASCII OR BINARY) UPON "LOGPERIOD".
;   THE MAX SEQUENCE LENGTH IS 1024 CHARS.  ESCAPE SEQUENCES ARE
;   ALLOWED IN THIS COMMAND.  FOR EXAMPLE THE COMMAND:
;
;   ^[10;13;YR;Y;MON;DAY;HR;MIN;SEC;HSEC;ID;HDR;ADDR;SID;STN;VER;^TOTMW^2]
;
;   WILL CAUSE A RETURN, LINE FEED, 4 DIGIT YEAR, 2 DIGIT YEAR, MONTH,
;   DAY, HOUR, MINUTE, SECOND, HUNDREDTH SECOND, DEVICE NUMBER, DEVICE
;   NAME, DEVICE ADDRESS, STATION NUMBER, STATION NAME, VERSION AND
;   THE VALUE OF THE USER VARIABLE "TOTMW" FROM DEVICE# 2, TO BE SAVED
;   TO THE LOG FILE.  WARNING: USING A PAUSE COMMAND IN THIS ESCAPE
;   SEQUENCE WILL GENERATE ERRORS.
;
; LOGHEADER:
;   SEQUENCE OF CHARS TO SAVE (ASCII OR BINARY) UPON CREATION OF
;   THE FILE SPECIFIED IN THE "LOGFILE" COMMAND.  THE MAX SEQUENCE
;   LENGTH IS 1024 CHARS.  ESCAPE SEQUENCES ARE ALSO ALLOWED.
;
; RENFILE:
;   AUTOMATICALLY RENAMES AN EXISTING FILE TO A NEW NAME.  THE COMMAND
;   SEQUENCE IS RENFILE=PATH+EXISTING FILE NAME | NEW FILE NAME.  THE
;   SPECIFIED FILE MUST EXIST IN THE SPECIFIED PATH.  THE PIPE SIGN IS
;   USED AS A SEPARATOR BETWEEN THE OLD PATH & FILENAME AND THE NEW PATH
;   & FILE NAME.RENFILE EXECUTES UPON A "TXPERIOD" COMMAND OR UPON AN
;   "ATMESSAGE" COMMAND.  THE MAXIMUM LENGTH IS 255 CHARACTERS AND ESCAPE
;   CODE COMMANDS ARE ALLOWED.
;
;   EXAMPLE:  RENFILE=C:\TEMP\^[^CMND].CSV C:\TEMP\^[^CMND1].CSV
;
; DELFILE:
;   AUTOMATICALLY DELETES THE SPECIFIED FILE.  THE COMMAND SEQUENCE IS
;   DELFILE=PATH+FILENAME.  DELFILE EXECUTES UPON A "TXPERIOD" COMMAND
;   OR UPON AN "ATMESSAGE" COMMAND.  THE MAXIMUM LENGTH IS 255 CHARACTERS
;   AND ESCAPE CODE COMMANDS ARE ALLOWED.
;
;   EXAMPLE:  DELFILE=C:\TEMP\^[^CMND].CSV
;
; RUNFILE:
;   RUNS THE SPECIFIED FILE AND PASSES THE DEFINED COMMAND LINE PARAMTERS.
;   THE COMMAND SEQUENCE IS RUNFILE=PATH+EXISTING FILE NAME | COMMAND LINE
;   PARAMETERS.  IF THE PATH IS NOT IN THE SYSTEM ENVIROMENT THEN THE PATH
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;
; IS REQUIRED. IF COMMAND LINE PARAMETERS ARE USED THEN THEY MUST HAVE
; A PIPE SIGN PRECEDING THE COMMAND LINE PARAMETERS. RUNFILE EXECUTES UPON
; A "TXPERIOD" COMMAND OR UPON AN "ATMESSAGE" COMMAND. THE MAXIMUM LENGTH
; IS 255 CHARACTERS AND ESCAPE CODE COMMANDS ARE ALLOWED.
;
; EXAMPLE: RUNFILE=C:\TEMP\FTP_SCRIPT.EXE | "C:\TEMP\ACTIVE_SCRIPT"
;
; DUNRENAME:
;
; AUTOMATICALLY RENAMES ALL FILES WITH A ".ZUN" EXTENSION TO THE SAME
; FILE NAME WITH A ".DUN" EXTENSION. ALSO, ALL FILES WITH A "*.ZN*"
; EXTENSION ARE RENAMED WITH A "*.DN*" EXTENSION. THE COMMAND SEQUENCE
; IS DUNRENAME=PATH. THE PATH IS THE FILE PATH WHERE ALL *.ZUN" AND
; "*.ZN*" ARE LOCATED ON DISK. DUNRENAME EXECUTES UPON A "TXPERIOD"
; COMMAND OR UPON AN "ATMESSAGE" COMMAND. THE MAXIMUM LENGTH IS 255
; CHARACTERS AND ESCAPE CODE COMMANDS ARE ALLOWED.
;
; EXAMPLE: DUNRENAME=C:\SDCSAVE\^[^STN]
;
; SETMESSAGE:
;
; SEQUENCE OF CHARS TO BE SENT AS A MESSAGE TO ALL LOADED DRIVERS.
; ALL DRIVERS THAT HAVE AN "ATMESSAGE=" COMMAND MATCHING THE SENT
; MESSAGE WILL EXECUTE. THE MAX SEQUENCE LENGTH IS 255 CHARS.
; THE SYSTEM CAN HANDLE UP TO 32 MESSAGES PER SECOND. FOR
; EXAMPLE THE COMMAND "SETMESSAGE=DIAL,LOGON,HANGUP^2" WILL SEND
; THE MESSAGES 'DIAL' & 'LOGON' TO ALL OF THE LOADED DERIVERS AND
; WILL SEND THE MESSAGE 'HANGUP' TO THE DRIVERS ON DEVICE # 2 ONLY.
; THE MAXIMUM LENGTH FOR EACH MESSAGE IN THE SEQUENCE IS 24 CHARS.
;
; ATMESSAGE:
;
; SEQUENCE OF CHARS THAT WILL CAUSE THE DRIVER TO EXECUTE IF EQUAL
; TO THE RECEIVED "SETMESSAGE=" COMMAND STRING. THE "SETMESSAGE="
; AND "ATMESSAGE=" COMMANDS CAN APPEAR TOGETHER IN THE SAME DRIVER
; AS LONG AS THEY ARE NOT EQUAL (THIS IS USEFULL FOR ORGANIZING
; DRIVERS IN A LINK LIST AND EXECUTING IN ORDER). THE MAX SEQUENCE
; LENGTH IS 24 CHARS.
;
; DIRMESSAGE:
;
; THE NAME OF A DIRECTORY PATH FOR THE SYSTEM TO MONITOR. IF ANY
; "*.MSG" FILES ARE DETECTED THEN THE NAME PORTION OF THE FILENAMES
; WILL BE USED AS MESSAGES TO THE SYSTEM AS IN "SETMESSAGE".
;
; TXFILE:
;
; COPIES OR MOVES ONE OR MORE FILES FROM SOURCE TO DESTINATION.
; THE FORMAT IS "TXFILE=SOURCE_PATH\WHICH FILES DESTINATION_PATH
; /MOVE (optional)". IF THE "\WHICH_FILES" IDENTIFIER IS SET TO
; "\=" THEN WHAT FOLLOWS MUST BE A SPECIFIC FILE TYPE IDENTIFIER
; SUCH AS \=COMTRADE, \=HATHAWAY, \=SUMMARY, \=SELHIST, \=SELEVENT,
; \=SELSUMMARY, \=LOGS, \=DFRHATHAWAY, OR \=RELINCOM. THESE FILE
; TYPE IDENTIFIERS ARE ONLY AVAILABLE FOR BASE50 FILES.
;
; ALL SPECIFIED FILENAMES MUST INCLUDE FULLY QUALIFIED PATH STRINGS.
; WHEN THE "TXFILE" COMMAND IS USED THE "TXCOMMAND" IS IGNORED. THE
; ";" CHARACTER IS RESERVED AND SHOULD NOT BE USED IN THIS COMMAND,
; THE SOFTWARE USES THE ";" TO SEPERATE BETWEEN MULTIPLE "TXFILE"
; COMMANDS. ALL OF THE LISTED "TXFILE" COMMANDS ARE CONCATENATED
; TO A SINGLE DATA BUFFER OF 1024 CHARACTERS MAXIMUM LENGTH.
;
; FILE TRANSFER PROTOCOL:
;
; -----
;
; THE PROTOCOL IS VERY SIMPLE DESIGNED TO BE QUICK AND HIGHLY
; DEPENDENT ON THE QUALITY OF THE COMMUNICATION LINK. FIRST THE
; TRANSMIT-END SENDS: (START BLOCK)+(FILE CONTENTS)+(END BLOCK)
; AND THEN UPON "END BLOCK" THE RECEIVE-END SENDS: (ACK BLOCK).
;
;
; IN THE EVENT THE "END BLOCK" TERMINATOR WAS NOT RECEIVED THEN
; THE RECEIVE-END WILL TERMINATE AND RESET IN 30 SECONDS FROM THE
; TIME THAT THE LAST BYTE WAS RECEIVED. THE BLOCK FORMATS ARE AS
; FOLLOWS (ALL VALUES, MESSAGES AND PARAMETERS ARE ENCLOSED BY
; PARENTHASIS AND ALL MESSAGES ARE CASE SENSITIVE):
;
;
; START BLOCK:
;
; -----
;
; BYTE 1-2: THE VALUES (TEN)+(ELEVEN)
; BYTE 3-23: THE MESSAGE (File Transfer Enable:)
; BYTE 24: THE VALUE (TEN)
; BYTE 25--: THE PARAMETERS (DESTINATION PATH)+(;)+
; (FILE NAME)+(;)+
; (SIZE)+(;)+
; (PACKED FILE-DATE&TIME BORLAND FORMAT)+(;)+
; (ASCII TRANSMIT-DATE&TIME)+(;)+
; (OPTIONAL FIELD=LONG TSD FILE NAME)

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;
;   BYTE LAST: THE VALUES (TEN)+(ELEVEN)
;
;
;   FILE CONTENTS:
;   -----
;
;   THE ACTUAL FILE CONTENTS STARTING FROM FIRST TO LAST BYTE.
;
;
;   END BLOCK:
;   -----
;
;   BYTE 1: THE VALUE (SEVEN)
;   BYTE 2-7: THE MESSAGE (Crc:= )
;   BYTE 8-11: THE PARAMETER (16-BIT CRC CLACULATED FOR THE FILE
;   CONTENTS BLOCK ONLY. THE MASK IS 8408 HEX AND THE
;   CRC IS SHIPPED IN ASCII HEX FORMAT WHERE 4 CHARACTERS
;   MAKE A WORD - HI BYTE FIRST - THE CRC IS INITIALIZED
;   TO FFFF AND IS NOT FLIPPED AT THE END AND MUST BE IN
;   UPPERCASE HEX NOTATION)
;   BYTE 12-13: THE VALUES (SEVEN)+(TEN)
;
;
;   ACK BLOCK:
;   -----
;
;   BYTE 1-2: THE VALUES (TEN)+(ELEVEN)
;   BYTE 3-21: THE MESSAGE (File Transfer Done:)
;   BYTE 22: THE VALUE (TEN)
;   BYTE 23-27: THE MESSAGE (Crc: )
;   BYTE 28-31: THE PARAMETER (16-BIT CRC CLACULATED FOR THE
;   RECEIVED FILE CONTENTS BLOCK ONLY. THE MASK IS 8408
;   HEX AND THE CRC IS SHIPPED IN ASCII HEX FORMAT WHERE
;   4 CHARACTERS MAKE A WORD - HI BYTE FIRST - THE CRC
;   IS INITIALIZED TO FFFF AND IS NOT FLIPPED AT THE END
;   AND MUST BE IN UPPERCASE HEX NOTATION)
;   BYTE 32: THE VALUE (TEN)
;   BYTE 33--: A DUPLICATE OF THE "BYTE 25--" SECTION OF THE
;   RECEIVED "START BLOCK".
;   BYTE LAST: THE VALUES (TEN)+(ELEVEN)
;
;
;   EXAMPLE:
;   -----
;
;   FOR EXAMPLE THE EXACT PROTOCOL TO TRANSFER A 2 BYTE FILE NAMED
;   HELLO.TXT CONTAINING THE WORD "HI" IS AS FOLLOWS (THE SKIPPED
;   LINES ARE TRANSMITTED LINE FEEDS (VALUE=10)):
;
;   TX ->|
;   | File Transfer Enable:
;   | C:\TEMP;HELLO.TXT;000000002;645175976;4/10/2001 19:54:50;
;   | HI\Crc:= A7DB\
;   |
;   RX <-|
;   | File Transfer Done:
;   | Crc: A7DB
;   | C:\TEMP;HELLO.TXT;000000002;645175976;4/10/2001 19:54:50;
;   |
;
;
;   TXDIAL:
;
;   VALID ONLY WHEN "TXFILE" IS SPECIFIED. IF "TXFILE" FINDS FILES
;   TO TRANSFER THEN THE SEQUENCE OF CHARACTERS SPECIFIED IN "TXDIAL"
;   WILL BE TRANSMITTED FIRST. THE MAX SEQUENCE LENGTH IS 255 CHARS.
;   EXAMPLE: TXDIAL=[13;P1]ATDT 1,123-456-7899^[13;P60]
;   NOTE: THE "P60" ABOVE WILL BE ABORTED UPON RECEIVING "CONNECT".
;
;
;   TXHANGUP:
;
;   VALID ONLY WHEN "TXFILE" IS SPECIFIED. WHEN "TXFILE" FILE
;   TRANSFER IS DONE THE SEQUENCE OF CHARS IN THE "TXHANGUP" COMMAND
;   WILL BE TRANSMITTED. THE MAX SEQUENCE LENGTH IS 255 CHARS.
;   EXAMPLE: TXHANGUP=[P1]+++^[P3]ATH0^[13;P2]
;
;
;   TXLAST:
;
;   SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) AFTER "TXCOMMAND"
;   AND "TXLOGON" ("TXLAST" IS INSERTED AT THE END OF THE TXCOMMAND).
;   THE MAX SEQUENCE LENGTH IS 1024 CHARS. ESCAPE SEQUENCES ARE ALSO ALLOWED.
;
;
;   TXSTART:
;
;   SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) BEFORE "TXCOMMAND"
;   AND "TXLOGON" ("TXSTART" IS INSERTED AT THE BEGINING OF THESE
;   COMMANDS). THE MAX SEQUENCE LENGTH IS 1024 CHARS. ESCAPE SEQUENCES
;   ARE ALSO ALLOWED.
;
;
;   TXLOGON:
;
;   SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) UPON LOADING OF
;   THE DRIVER FOR THE FIRST TIME ONLY. THE MAX SEQUENCE LENGTH IS
;   255 CHARS. TXLOGON WILL ONLY WORK FROM THE PARENT DRIVER.
;   ESCAPE SEQUENCES ARE ALSO ALLOWED.
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; TXCOMMAND:
; SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) UPON "TXPERIOD" OR
; UPON ATMESSAGE OR BY REQUSET FROM THE CONTROL OPTIONS MENU. THE
; MAX SEQUENCE LENGTH IS 1024 CHARS. ESCAPE SEQUENCES ARE ALLOWED
; IN THIS COMMAND. FOR EXAMPLE THE COMMAND:
;
; ^[10;13;P2;YR;MON;DAY;HR;MIN;SEC;HSEC;ID;HDR;ADDR;SID;STN;VER;^TOTMW^2]
;
; WILL CAUSE A RETURN, LINE FEED, DELAY 2 SECONDS, AND SO ON TO BE
; TRANSMITTED OUT THE PORT. ANOTHER EXAMPLE IS THE TERMINATE MODEM
; CONNECTION COMMAND:
;
; ^[10;13;P1]+++^[P3]ATH0^[13;10;P1;EXIT]
;
; IN THIS EXAMPLE THE "EXIT" COMMAND IS A SYSTEM INSTRUCTION THAT
; CAUSES THE SYSTEM TO SHUT DOWN AND RETURN CONTROL TO THE DOS HOST.
; THE "EXIT" COMMAND CAN ONLY BE USED FOLLOWING A PAUSE COMMAND "P"
; AS SHOWN IN THE EXAMPLE (FOR DOS ONLY).
;
; ANOTHER EXAMPLE IS THE TRANSMIT FUNCTION KEYS COMMAND:
;
; ^[^F1;^F3;^F9;13;10;^CMND]
;
; IN THIS EXAMPLE THE "^F1" COMMAND WILL CAUSE THE SYSTEM TO SHIP
; THE CONTENTS OF THE F1 FUNCTION KEY OF THE SPECIFIED DEVICE OUT
; THE SPECIFIED PORT. THE VARIABLE NAMES "F1" TO "F9" AND "CMND"
; ARE RESERVED BY THE SYSTEM AND CANNOT BE USED AS NAMES FOR USER
; VARIABLES. "CMND" IS THE "EsqSeq Command" FIELD FOR EACH DEVICE.
;
; INTERNAL DRIVERS
; -----
;
; IF "TXCOMMAND=RTU-SOE" WAS SPECIFIED THEN THE PRECODED SES-92
; BINARY PROTOCOL FOR READING SOE POINTS FROM THE RTU WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=RTU-ANALOG" WAS SPECIFIED THEN THE PRECODED SES-92
; BINARY PROTOCOL FOR READING ANALOG DUMPS FROM THE RTU WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=RTU-STATUS" WAS SPECIFIED THEN THE PRECODED SES-92
; BINARY PROTOCOL FOR READING STATUS DUMPS FROM THE RTU WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=SEL-351FM" WAS SPECIFIED THEN THE PRECODED SEL-351
; BINARY PROTOCOL FOR FAST METER OPERATIONS WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=SEL-EVENTS" WAS SPECIFIED THEN THE PRECODED SEL-351,
; 321, 251, AND 221 ASCII PROTOCOL FOR AUTOMATIC EVENT CAPTURE WILL
; EXECUTE UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=20", "RXEND=[03]", "RXPLUS=0".
;
; IF "TXCOMMAND=SYNC-ARB" WAS SPECIFIED THEN THE PRECODED ARBITRAR
; ASCII PROTOCOL FOR READING THE GPS CLOCK'S TIME AND SETTING THE
; PC'S SYSTEM CLOCK WILL EXECUTE UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", "RXEND" AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=SYNC-TRUE" WAS SPECIFIED THEN THE PRECODED TRUE TIME
; ASCII PROTOCOL FOR READING THE GPS CLOCK'S TIME AND SETTING THE
; PC'S SYSTEM CLOCK WILL EXECUTE UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", "RXEND" AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=DNP-ANALOG" WAS SPECIFIED THEN THE PRECODED DNP 3.0
; PROTOCOL FOR READING ANALOG VALUES FROM IEDS WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY", "RXSTAY=4". USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=HATH-DFR" WAS SPECIFIED THEN THE PRECODED HATHAWAY
; DFR-II PROTOCOL FOR EXTRACTING THE LATEST RECORDS AND SAVING TO

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; SEPERATE FILES USING THE HATHAWAY NAMING CONVENTION WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY", "RXSTAY=15", "RXEND=1B 03 FF",
; "RXPLUS=1".
;
; IF "TXCOMMAND=REL-30X" WAS SPECIFIED THEN THE PRECODED ABB MDAR &
; REL30X PROTOCOL FOR EXTRACTING THE LATEST RECORDS AND SAVING TO
; SEPERATE FILES USING THE LONG FILENAME CONVENTION WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY", "RXSTAY=10", "RXEND" AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=REL-30X-M" WAS SPECIFIED THEN THE PRE-CODED ABB REL30X-M
; PROTOCOL FOR EXTRACTING THE LATEST METER VALUES WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
; METER VALUES EXTRACTED: DATE AND TIME, LOP, LOI, IA AND ANGLE
; IB AND ANGLE, IC AND ANGLE, VA AND ANGLE, VB AND ANGLE & VC AND ANGLE
;
; IF "TXCOMMAND=DLP-EVENTS" WAS SPECIFIED THEN THE THE PRE-CODED
; GE DLP-EVENTS PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS AND
; SUMMARIES WILL EXECUTE UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=10", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=DPU-MODBUS" WAS SPECIFIED THEN THE PRE-CODED ABB
; DPU-MODBUS PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS WILL
; EXECUTE UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=10", "RXEND=^[13;10]", RXPLUS IN
; THIS CASE IS RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=ROCH-DFR" WAS SPECIFIED THEN THE PRE-CODED ROCHESTER
; DFR PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS WILL EXECUTES
; UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=8", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=GE-D60" WAS SPECIFIED THEN THE PRE-CODED GE-D60
; PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=8", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=FTP-EVENTS" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; FTP PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=FTP-SEND" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; FTP PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=TIS-RECORDER" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; TIS PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=TIS-CONFIG" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; TIS CONFIG PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=TIS-BINARY" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; TIS BINARY PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=ERL-RELAYS" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; ERLPHASE RELAY PROTOCOL FOR EXTRACTING THE LATEST EVENTS RECORDS USING
; THE VT100 TERMINAL MODE AND ZMODEM PROTOCOL EXECUTES UPON "TXPERIOD" OR
; "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
TXEND:
; SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) AFTER "TXCOMMAND"
; AND "TXLOGON" ("TXEND" IS INSERTED AT THE END OF THESE COMMANDS).
; THE MAX SEQUENCE LENGTH IS 1024 CHARS. ESCAPE SEQUENCES ARE ALSO
; ALLOWED.
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;
; TXPERIOD:
; THE TRANSMIT CYCLE IN SECONDS (AN INTEGER NUMBER UP TO 2 MILLION).
; FOR EXAMPLE, IF "TXPERIOD=4" WAS SPECIFIED THEN THE "TXSTART",
; "TXCOMMAND", AND "TXEND" STRINGS ARE CONCATENATED AND TRANSMITTED
; ONCE EVERY 4 SECONDS. IF "TXPERIOD=0" WAS SPECIFIED THEN THESE
; ACTIONS WILL NOT OCCUR UNLESS "TXDELAY>0" WAS SPECIFIED IN WHICH
; CASE THE DRIVER WILL EXECUTE ONE TIME ONLY. IF "TXPERIOD=T0800"
; WAS SPECIFIED THEN THE DRIVER WILL EXECUTE AT 08:00 MILITARY TIME.
;
; TXDELAY:
; THE DURATION IN SECONDS TO WAIT BEFORE THE TRANSMIT CYCLE BEGINS.
; FOR EXAMPLE, IF "TXDELAY=3" WAS SPECIFIED THEN ONLY THE FIRST
; OCCURRENCE OF "TXPERIOD" IS DELAYED BY 3 SECONDS. IN THE PREVIOUS
; EXAMPLE THE FIRST PERIOD WILL OCCUR AFTER 7 SECONDS AND ALL OTHERS
; WILL OCCUR 4 SECONDS APART. IF "TXPERIOD=0" WAS SPECIFIED THEN
; SPECIFYING "TXDELAY" WILL CAUSE THE DRIVER TO EXECUTE ONLY ONE
; TIME (USEFULL FOR LOGON PROCEDURES).
;
; TXBREAK:
; THIS COMMAND SENDS A NUMBER OF BREAK SIGNALS TO THE CONNECTED DEVICE.
; THE SEQUENCE RUNS BY FIRST CALLING THE WINAPI SETCOMMBREAK FUNCTION
; TO SUSPEND CHARACTER TRANSMISSION FOR THE SPECIFIED COMMUNICATIONS
; DEVICE AND PLACES THE TRANSMISSION LINE IN A BREAK STATE UNTIL THE
; CLEARCOMMBREAK FUNCTION IS CALLED. IT THEN WAITS THE SPECIFIED BREAK
; TIME THEN CALLS THE WINAPI CLEARCOMMBREAK FUNCTION TO RESTORE CHARACTER
; TRANSMISSION FOR THE SPECIFIED COMMUNICATIONS DEVICE AND PLACES THE
; TRANSMISSION LINE IN A NONBREAK STATE. IT THEN PAUSES THE SPECIFIED
; PAUSE TIME BEFORE REPEATING THE SEQUENCE. THIS SEQUENCE IS REPEATED
; THE NUMBER OF TIMES SPECIFIED IN THE COMMAND BREAK PARAMTERS. THE
; CALLING SCHEME IS TXBREAK=# OF TIMES TO REPEAT SEQUENCE, TIME INTERVAL
; IN MILLISECONDS BETWEEN SETCOMMBREAK AND CLEARCOMMBREAK, TIME INTERVAL
; BETWEEN SEQUENCE CALLS.
;
; EXAMPLE: TXBREAK=2,500,250
;
; SENDCR:
; THIS COMMAND WILL SEND A CARRIAGE RETURN TO THE CONNECTED DEVICE EVERY
; X SECONDS TO ENSURE THE DEVICE DOES NOT TIME OUT DURING A POLLING
; SESSION. SOME DEVICES HAVE SETTINGS THAT WILL TIME OUT AFTER A SPECIFIED
; NUMBER OF MINUTES IF NO CHARACTERS ARE RECEIVED.
;
; EXAMPLE: SENDCR=20
;
; ONDAY:
; THE DRIVER COMMANDS WILL BE PROCESSED ON THE SPECIFIED DAY OF EACH
; MONTH FOR THE DURATION OF THAT DAY. THE RANGE OF VALUES ALLOWED
; IS 1 TO 31. USE THIS COMMAND IN COMBINATION WITH THE MILITARY
; TIME "TXPERIOD" COMMAND TO PERFORM MONTHLY FUNCTIONS.
;
; ONDOW:
; THE DRIVER COMMANDS WILL BE PROCESSED ON THE SPECIFIED DAY OF EACH
; WEEK FOR THE DURATION OF THAT DAY. THE RANGE OF VALUES ALLOWED IS
; 1 TO 7 (FROM 1=MONDAY TO 7=SUNDAY). USE THIS COMMAND ALONG WITH
; THE MILITARY TIME "TXPERIOD" COMMAND TO PERFORM WEEKLY FUNCTIONS.
;
; RXSTART:
; SEQUENCE OF CHARS FROM THE DEVICE INDICATING "START OF RESPONSE" (STX).
; THE MAXIMUM SEQUENCE LENGTH FOR "RXSTART" IS 255 CHARS. THIS STRING
; IS USED TO SYNC WITH START OF RESPONSE. FOR EXAMPLE: THE NUMERIC
; VALUE 2 (02 HEX) IS USED BY MANY DEVICES TO INDICATE THE START OF THE
; RESPONSE. IN THIS CASE USE "RXSTART=[02]" IF "TYPE=ASCII", OR
; "RXSTART=02" IF "TYPE=HEX".
;
; RXEND:
; SEQUENCE OF CHARS FROM THE DEVICE INDICATING "END THE RESPONSE" (ETX).
; THE MAXIMUM SEQUENCE LENGTH FOR "RXEND" IS 255 CHARS. THIS STRING IS
; USED TO INDICATE THAT THE DRIVER HAS RECIEVED THE FULL RESPONSE.
; UPON "RXEND" THE SYSTEM WILL PROCESS THE "RXSTRIP" PARSE COMMANDS
; AND WHEN FINISHED THE DRIVER IS UNLOADED SO THAT OTHER DRIVERS
; (THAT ARE DEFINED AT THE SAME PORT) CAN EXECUTE. ALSO UPON
; "RXEND" THE "RXSTAY" DELAY IS ABORTED. FOR EXAMPLE: THE NUMERIC
; VALUE 3 (03 HEX) IS USED BY MANY DEVICES TO INDICATE THE END OF A
; RESPONSE. IN THIS CASE USE "RXEND=[03]". IF "TYPE=ASCII", OR
; "RXEND=03". IF "TYPE=HEX".
;
; RXPLUS:
; SOME DEVICES TRANSMIT A CHECK SUM OR CRC CODE AFTER "RXEND".
; IN THIS CASE, THE "RXEND" NO LONGER INDICATES THE PHYSICAL END
; OF THE RESPONSE. USE "RXPLUS" TO DEFINE THE TOTAL NUMBER OF BYTES
; BEYOND "RXEND". FOR EXAMPLE: IF "RXEND=1B 03" IS SET AND THE ACTUAL
```

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;
;     RESPONSE ENDS IN "1B 03 FF 83", THEN USE "RXPLUS=2"
;
;
; RXSTAY:
;
;     THERE IS A DELAY BETWEEN THE TIME THAT A COMMAND IS TRANSMITTED
;     AND THE TIME THAT THE RESPONSE BEGINS TO ARRIVE.  FURTHERMORE,
;     THERE ARE BREAKS DURING TRANSMISSION WHERE THE RESPONDING DEVICE
;     MAY PAUSE AND THEN CONTINUE TO TRANSMIT.  SUCH DELAYS AND PAUSES
;     SHOULD BE TIMMED USING TERMINAL MODE TO STUDY HOW THE DEVICE
;     RESPONDES.  THE LARGEST DELAY OR PAUSE SHOULD BE RECORDED IN THE
;     "RXSTAY" COMMAND.  IF "RXSTAY=4" IS DEFINED THEN THE SYSTEM WILL
;     INITIATE AN INTERNAL COUNTER THAT WOULD COUNT UP TO 4 SECONDS FROM
;     THE TIME THAT THE LAST BYTE WAS RECEIVED.  IF NEW BYTES ARRIVE
;     DURING "RXSTAY" THEN THE INTERNAL COUNTER IS INITIALIZED.  THE
;     DEFAULT VALUE IS "RXSTAY=3".  ONCE THE INTERNAL COUNTER REACHES
;     "RXSTAY" THEN THE SYSTEM WILL UNLOADED THE DRIVER SO THAT OTHER
;     DRIVERS (THAT ARE DEFINED AT THE SAME PORT) CAN EXECUTE.  ONCE
;     "RXEND" IS ENCOUNTERED, "RXSTAY" ABORTS.
;
;
; RXWAIT:
;
;     IF "RXEND" IS KNOWN AND THE NUMBER OF BYTES RECEIVED AFTER THE
;     DEFINED "RXEND" IS UNKNOWN USE "RXWAIT" TO WAIT A NUMBER OF SECONDS
;     BEFORE ENDING THE DRIVER.  FOR EXAMPLE, WHEN A MODEM CONNECTS IT
;     SENDS A "CONNECT" SIGNAL.  THE NUMBER OF BYTES IT SENDS AFTER THE
;     "CONNECT" SIGNAL VARIES.  SET "RXWAIT=" TO DELAY THE DRIVER FROM
;     BEING UNLOADED.  THIS ENSURES THAT ALL THE DATA REMAINING TO BE
;     RECEIVED GOES TO THE PROPER DEVICE FILE "DEV_###.DTB".  REFER TO
;     THE EXAMPLE MODEM DRIVER BELOW.
;
;
; RXQUIT:
;
;     IF "RXEND" IS NOT DETECTED, SET "RXQUIT" CAN BE USED TO SEND
;     MESSAGE COMMANDS, UP TO 24 CHARACTERS, TO ALL LOADED LOADED DRIVES.
;
;
; RXCLEAR:
;
;     THE RECIEVE BUFFER WILL NOT BE CLEARED UPON TXPERIOD AND WILL BE
;     ALLOWED TO BUILD UP TO THE TOTAL NUMBER OF FIELDS (RXSTRIP LINES).
;     THE RANGE OF VALUES FOR RXCLEAR IS 0 OR 1 (DEFAULT=0).  THIS IS
;     USEFULL FOR CREATING SCROLLABLE INFORMATION.
;
;
; RXSAVE:
;
;     THE RECEIVE DATA IS BUFFERED INTO LINK LIST WITH 256 CHARACTERS
;     PER LINK.  TO SAVE THE BUFFERED DATA TO A TEXT OR BINARY FILE
;     (DEPENDS ON THE TYPE SETTING) USE RXSAVE=FILENAME.  FOR EXAMPLE,
;     THE OPTIMHO DRIVER BUFFERS THE DATA THEN WHEN COMPLETE IT SAVES
;     THE BUFFERED DATA TO A FILE.  THE MAXIMUM LENGTH IS 255 CHARACTERS
;     AND ESCAPE CODE COMMANDS ARE ALLOWED.  THE FOLLOWING EXAMPLE SAVES
;     THE RECEIVED DATA TO A TEXT FILE CALLED RX-DEVICE#.BUF (RX-2.BUF)
;     IN THE C:\SDCSAVE DIRECTORY.
;
;     RXSAVE=C:\SDCSAVE\RX-^[ID].BUF
;
;
; RXSTRIP:
;
;     SEQUENCE OF CHARS OR BYTES TO STRIP FROM THE RECIEVED DATA AND
;     DISPLAY ON SCREEN [UP TO 512 RXSTRIP COMMANDS PER DRIVER].  THE
;     RXSTRIP COMMANDS ARE EXECUTED FOLLOWING THE SEQUENCE IN WHICH THEY
;     APPEAR.
;
;
;     N# = LINE NUMBER TO STRIP OR BLOCK NUMBER FOR BINARY [POSITIVE #]
;         IF "N0" IS SPECIFIED THEN THE FIELD IS A HEADER FIELD ONLY.
;         HEADER FIELDS CAN BE USED TO DISPLAY VARIABLES DEFINED OR
;         CALCULATED USING THE @, +, -, *, /, &, |, >, OR < COMMANDS.
;     S# = STARTING CHARACTER OR BYTE NUMBER TO STRIP [FROM 1 TO 512].
;     T# = TOTAL CHARS OR BYTES TO STRIP [ASCII=1 TO 75, BINARY=1 TO 4].
;     B# = THE Nth NON-BLANK SEQUENCE OF CHARS TO STRIP.  FOR EXAMPLE
;         TO STRIP "VINY" FROM "MY NAME IS VINY" USE THE COMMAND "B4".
;     BC# = THE Nth COMMA SEQUENCE OF CHARS TO STRIP.  FOR EXAMPLE
;         TO STRIP "VINY" FROM "MY,,NAME,IS,,,VINY" USE THE COMMAND "BC7".
;     D# = TYPE OF DATA TO DISPLAY.  THE AVAILABLE TYPES ARE:
;         0: ASCII (READ EACH BYTE AS AN ASCII CODE),
;         1: INTEGER (CONVERT 1, 2 OR 4 BYTES TO INTEGER STRING),
;         2: HEX (CONVERT 1 BYTE TO A HEX STRING),
;         3: REAL (4 BYTE IEEE SINGLE FLOAT TO A REAL STRING),
;         4: ASCII-HEX (CONVERT 1, 2 OR 4 HEX CHARS TO DECIMAL), OR
;         5: ASCII-DECIMAL (READ ASCII STRING AS DECIMAL).
;         6: ASCII-CODED-DECIMAL (CONVERT HEX STRING TO ASCII CODE).
;     "" = HEADER TO DISPLAY AHEAD OF THE STRIPED DATA [MAX 24 CHARS].
;     H# = COLOR TO DISPLY THE HEADER [FROM 0 TO 15].
;     X# = COLUMN # TO DISPLAY THE HEADER AND THE DATA [FROM 1 TO 75].
;     Y# = ROW # TO DISPLAY THE HEADER AND THE DATA [FROM 1 TO 8].
;     C# = COLOR TO DISPLAY THE STRIPPED DATA [FROM 0 TO 15].
;     V# = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF EQUAL).
;     V=# = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF EQUAL).
;     V># = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF GREATER).

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;
;   SID - GROUP NUMBER
;   STN - GROUP NAME
;
;   VER - PROGRAM'S VERSION NUMBER
;
;   CRCSTATEC - PROPRIETARY STATEC METER 8-BIT CHECKSUM
;   CRCMDAR - PROPRIETARY ABB MDAR RELAY CRC16 CHECKSUM
;   CRCBI - PROPRIETARY BITRONICS METER 8-BIT CHECKSUM
;   CRCDLP - PROPRIETARY DLP RELAY CRC16 CHECKSUM
;   CRHYDRAN - PROPRIETARY HYDRAN 8-BIT CHECKSUM
;   CRCHATH - PROPRIETARY HATHAWAY DFR 8-BIT CHECKSUM
;   CRCDPU - PROPRIETARY DPU RELAY CRC16 CHECKSUM
;   CRCPASS - GENERATE A RANDOM 6 CHARACTER PASSWORD FOR SET PASSWORDS.
;   CRCROCH - PROPRIETARY ROCHESTER DFR CHECKSUM
;
;   EXIT - CLOSE THE WAVEWIN APPLICATION AND RUN LAPLINK FOR REMOTE CONTROL
;   WAIT - WAIT UNTIL ALL SCHEDULED POLLING IS COMPLETE.
;   CONNECT - CONNECT TO THE DEVICE USING THE SPECIFIED ETHERNET PROTOCOL
;             (ETHERNET ONLY).
;
DISCONNECT - DISCONNECT FROM THE DEVICE'S ETHERNET CONNECTION.
;
;
;   P# - PAUSE # OF SECONDS (MAX DELAY IS 99 SECONDS)
;   # - ANY 1 BYTE INTEGER NUMBER IN DECIMAL (0 TO 255)
;
;   ^X^Y - THE VARIABLE NAME "X" FROM DEVICE# "Y"
;   %#:N - THE TEXT # WILL BE LEFT JUSTIFIED WITH BLANKS TO THE LENGTH OF N
;   $FILE:N - READ Nth LINE IN FILE AND INSERT IN THE COMMAND
;
;
; * RESERVED VARIABLE NAMES ARE:
;
; F1..F9 - THE FUNCTION KEYS ASSIGNED TO EACH DEVICE IN THE DEVICE MANAGER TABLE.
;
; HDR - IS THE "TITLE" FIELD ASSIGNED TO EACH DEVICE.
; ADDR - IS THE "ADDRESS" FIELD ASSIGNED TO EACH DEVICE.
; TC - IS THE "TIME CODE" FIELD ASSIGNED TO EACH DEVICE.
; STN - IS THE "GROUP NAME" FIELD ASSIGNED TO EACH DEVICE.
; SID - IS THE "GROUP ID" FIELD ASSIGNED TO EACH DEVICE.
; PID - IS THE "PORT NUMBER" ASSIGNED TO EACH DEVICE.
;
; CMND - THE PHONE NUMBER FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND1 - THE PASSWORD1 FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND2 - THE PASSWORD2 FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND3 - THE BACKOUT FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND4 - THE LOG HEADER FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND5 - THE EVENT TYPE FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND6 - THE SAVE PATH FIELD IN THE DEVICE CONFIGURATION DIALOG.
; CMND7 - RESERVED FOR FUTURE USE.
; CMND8 - RESERVED FOR FUTURE USE.
; CMND9 - RESERVED FOR FUTURE USE.
; CMND10 - RESERVED FOR FUTURE USE.
; CMND11 - RESERVED FOR FUTURE USE.
;
; WAVEWIN COMMAND LINE PARAMETERS
;
;
; PORTS- THE "PORTS" COMMAND LINE WILL AUTOMATICALLY RUN THE DEVICE MANAGER
;        WHEN WAVEWIN IS EXECUTED. TO HAVE THE POLLING START IN THE MID OR
;        DXF WINDOW WHEN WAVEWIN EXECUTES YOU MUST ADD THE PORTS & MID OR
;        DXF COMMAND LINE PARAMETERS TO THE WAVEWIN32.EXE PROPERTIES DIALOG.
;
; MID- THE "MID" COMMAND LINE WILL AUTOMATICALLY RUN THE MID WINDOW AFTER
;       THE DEVICE MANAGER HAS BEEN FULLY LOADED. TO HAVE THE POLLING START
;       IN THE MID WINDOW WHEN WAVEWIN EXECUTES YOU MUST ADD THE PORTS &
;       MID COMMAND LINE PARAMETERS TO THE WAVEWIN32.EXE PROPERTIES DIALOG.
;
; DXF- THE "DXF" COMMAND LINE WILL AUTOMATICALLY RUN THE DXF WINDOW AFTER
;       THE DEVICE MANAGER HAS BEEN FULLY LOADED. TO HAVE THE POLLING START
;       IN THE DXF WINDOW WHEN WAVEWIN EXECUTES YOU MUST ADD THE PORTS &
;       DXF COMMAND LINE PARAMETERS TO THE WAVEWIN32.EXE PROPERTIES DIALOG.
;       THE DXF WINDOWS MUST BE ENTERED INTO THE DEFINE DXF DIALOG BEFORE
;       RUNNING THE SYSTEM WITH THE DXF COMMAND LINE PARAMETER. REFER TO THE
;       "CHANGE DXF FILES" SECTION IN THE WAVEWIN DEVICE MANAGER MANUAL.
;
; BROADCAST- THE "BROADCAST" COMMAND LINE WILL AUTOMATICALLY RUN THE STATION'S
;            BROADCAST MODE WHEN WAVEWIN IS EXECUTED.
;
; REMOTE- THE "REMOTE" COMMAND LINE WILL RUN WAVEWIN IN REMOTE CONTROL MODE.
;         THIS MODE IS USED WHEN CALLING INTO A WAVEWIN STATION AND USING A
;         THIRD PARTY SOFTWARE TO TAKE CONTROL OF THE MACHINE. WAVEWIN WILL BY
;         PASS ALL DEVICES DEFINED AT THE PORT THAT IS BEING USED TO CALL IN TO
;         THE WAVEWIN STATION.
;
; REPORT- THE "REPORT" COMMAND LINE IS USED WHEN THE WAVEWIN STATION IS TO
;         AUTOMATICALLY CALL ANOTHER WAVEWIN STATION AND SHIP ALL THE EXTRACTED
;         FILES. A "REPORTIF" DRIVER IS REQUIRED IN THE DRIVERS.INI FILE.
;
; PATH & FILENAME - IF A PATH AND FILENAME IS PASSED AS A COMMAND LINE PARAMETER THEN THE
;                  PATH AND FILENAME MUST BE SURROUNDED BY QUOTES, SUCH AS
;                  "C:\FAULTLIBRARY\EVENT1.DAT". WAVEWIN WILL AUTOMATICALLY OPEN THE FILE.
;
; /VIEW- THIS "/VIEW" COMMAND LINE PARAMETER IS USED ALONG WITH A PATH AND
;        FILENAME COMMAND LINE TO DEFINE TO AUTOMATICALLY OPEN THE DEFINED FILE
;        WHEN WAVEWIN IS EXECUTED.
;
; /PRINT- THIS "/PRINT" COMMAND LINE PARAMETER IS USED ALONG WITH A PATH AND
;         FILENAME COMMAND LINE TO DEFINE TO AUTOMATICALLY OPEN AND PRINT THE
;         DEFINED FILE WHEN WAVEWIN IS EXECUTED.

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; /BATCH- THE "BATCH" COMMAND LINE PARAMETER IS USED ALONG WITH A PATH AND BATCH
; FILENAME COMMAND LINE TO AUTOMATICALLY OPEN THE DEFINED BATCH FILE AND
; EXECUTE EACH COMMAND LINE DEFINED IN THE FILE. THIS FEATURE IS MAINLY
; USED TO PRINT A NUMBER OF FILES.
; /X- THE "/X" COMMAND LINE PARAMETER TELLS WHERE TO DISPLAY WAVEWIN'S LEFT
; CORNER WHEN EXECUTED.
; /Y- THE "/Y" COMMAND LINE PARAMETER TELLS WHERE TO DISPLAY WAVEWIN'S UPPER
; CORNER WHEN EXECUTED.
; /W- THE "/W" COMMAND LINE PARAMETER TELLS THE WIDTH OF THE WAVEWIN
; APPLICATION WHEN EXECUTED.
; /H- THE "/H" COMMAND LINE PARAMETER TELLS THE HEIGHT OF THE WAVEWIN
; APPLICATION WHEN EXECUTED.
; /EXIT- THE "EXIT" COMMAND LINE WILL AUTOMATICALLY EXIT WAVEWIN AFTER ALL
; OTHER COMMAND LINE PARAMETERS ARE FULLY COMPLETE.
```